HO
$$C_{17}H_{35}$$
 $C_{17}H_{35}$ $C_{17}H_{35}$

Fig. 1

Fig. 2A

Fig. 2B

Fig. 2C

Fig. 2D

mPEG-O CI +
$$\bigoplus_{H_3N} S$$
 S OCH₃

R = H, CH₃, C₂H₅

Et₃N

mPEG-O N S S OCH₃

para- or orthomercaptobenzyl alcohol

mPEG-O N S S OH

para-nitrophenyl chloroformate / Et₃N

PEG-O N S S OCH₃

para-nitrophenyl chloroformate / Et₃N

PEG-O N S S OCH₃

Fig. 4

Fig. 5

mPEG-OH

1. CI
$$\longrightarrow$$
 NO2

2. 1-amino-2-propanol or -2-butanol

3. CH₃SO₂CI/TEA
4. Tr-SH/NaH
5. CH₃OCOSCI

mPEG-O \longrightarrow N \longrightarrow S \longrightarrow OH

mPEG-O \longrightarrow NO2

mPEG-O \longrightarrow NO2

mPEG-O \longrightarrow NO2

Fig. 6A

Fig. 6B

Fig. 7

Fig. 8A

Fig. 8B